

Nu-Metrics Traffic Analyzer Study
Computer Generated Summary Report
City: City of Fairfax
Street: Railroad Ave # 3 Red

A study of vehicle traffic was conducted with HI-STAR unit number 1038. The study was done in the North bound lane on Railroad Ave using counter # 3 Red as shown on attached drawing. The counter was placed 50 ft. north of the speed hump. The study began on 09/16/2003 at 02:00 PM and concluded on 09/18/2003 at 02:00 PM, lasting a total of 48 hours. Data was recorded in 60 minute time periods. The total recorded volume of traffic showed 827 vehicles passed through the location with a peak volume of 45 on 09/16/2003 at 03:00 PM and a minimum volume of 0 on 09/17/2003 at 12:00 AM. The AADT Count for this study was 414.

SPEED

Chart 1 lists the values of the speed bins and the total traffic volume for each bin.

Chart 1							
0 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 >
0	95	160	150	92	39	14	22

At least half of the vehicles were traveling in the 20 - 24 mph range or a lower speed. The average speed for all classified vehicles was 21 mph with 29.2 percent exceeding the posted speed of 25 mph. The HI-STAR found 6.29 percent of the total vehicles were traveling in excess of 35 mph and 3.84 percent were traveling in excess of 40 mph. The mode speed for this traffic study was 15 mph and the 85th percentile was 29.41 mph.

CLASSIFICATION

Chart 2 lists the values of the eight classification bins and the total traffic volume accumulated for each bin.

Chart 2							
0 to 20	21 to 27	28 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 >
526	27	14	4	0	1	0	0

Most of the vehicles classified during the study were Passenger Cars. The number of Passenger Cars in the study was 553 which represents 96.70 percent of the total classified vehicles. The number of Small Trucks in the study was 14 which represents 2.40 percent of the total classified vehicles. The number of Trucks/Buses in the study was 4 which represents 0.70 percent of the total classified vehicles. The number of Tractor Trailers in the study was 1 which represents 0.20 percent of the total classified vehicles.

HEADWAY

During the peak time period, on 09/16/2003 at 03:00 PM the average headway between the vehicles was 78.26 seconds. The slowest traffic period was on 09/17/2003 at 12:00 AM. During this slowest

period, the average headway was 3600.0 seconds.

WEATHER

The roadway surface temperature over the period of the study varied between 68 and 121 degrees Fahrenheit. The HI-STAR determined that the roadway surface was Dry 100.00 percent of the time.